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NEW ISSUE



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**NATIONAL ENERGY SURVEY : HOUSEHOLD  
APPLIANCES, FACILITIES AND INSULATION  
AUSTRALIA  
NOVEMBER 1980**

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**AUSTRALIAN BUREAU OF STATISTICS Canberra**



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**NATIONAL ENERGY SURVEY  
HOUSEHOLD APPLIANCES, FACILITIES  
AND INSULATION  
AUSTRALIA  
NOVEMBER 1980**

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CONTENTS

| <u>Table</u> |                                                                                                             | <u>Page</u> |
|--------------|-------------------------------------------------------------------------------------------------------------|-------------|
| ..           | Explanatory notes                                                                                           | 1           |
| 1            | Households by major appliances and facilities, States and Territories                                       | 3           |
| 2            | Households by type of major cooking appliances and by type of fuel, States and Territories                  | 4           |
| 3            | Details of non-shared hotwater systems by metropolitan/non-metropolitan areas, States and Territories       | 5           |
| 4            | Households by type of heating appliances, States and Territories                                            | 6           |
| 5            | Households by number and type of portable heaters, States and Territories                                   | 7           |
| 6            | Households by type of non-shared air-conditioning, States and Territories                                   | 9           |
| 7            | Single household dwellings by type of ceiling insulation by material of outer walls, States and Territories | 10          |
| 8            | Single household dwellings by type of wall insulation by material of outer walls, States and Territories    | 12          |
| ..           | Appendix I - Technical note on sampling variability                                                         | 14          |



## EXPLANATORY NOTES

Introduction

In November 1980 a survey was conducted throughout Australia to obtain information about the number and type of selected domestic appliances held by households. Interviews were carried out over a period of two weeks beginning on 10th November. This publication contains the results of that survey.

Scope and coverage

2. The survey was conducted as part of the regular ABS population survey, which is based on a multi-stage area sample of private dwellings (about 30,000 houses, flats, etc.) and non-private dwellings (hotels, motels, etc.) and covers about two-thirds of one per cent of the population of Australia.

For the purposes of this National Energy Survey, certain types of dwellings, such as non-private dwellings (e.g. hospitals, motels, hotels), caravan parks and dwellings occupied by more than one household, or diplomatic personnel or persons from overseas holidaying in Australia, were excluded.

Information was sought from all selected single household dwellings with regard to the following items:

- (a) major domestic appliances,
- (b) water heating facilities,
- (c) room heating,
- (d) air-conditioning, and
- (e) insulation.

3. This information was obtained from an adult member within each selected dwelling by carefully chosen and specially trained interviewers.

Reliability of the estimates

4. Since the estimates are based on

a sample, they are subject to sampling variability (see Appendix I). Estimates with relative standard errors greater than 25 per cent, indicated by the symbol \*, have not been shown as they are considered unreliable for most purposes.

In addition to sampling errors, the estimates are subject to non-sampling errors. These may be caused by errors in reporting (e.g. because of misunderstanding or unwillingness of respondents to reveal all details) or errors arising during processing (e.g. coding, data recording). Such errors may occur in any statistical collection, whether it is a full census count or a sample survey. Every effort is made to reduce non-sampling errors in the survey to a minimum by careful design and testing of questionnaires, by intensive training and supervision of interviewers, and by efficient operating procedures.

Definitions

5. Shared hot water system - one in which hot water is provided from a single heating or storage unit to a number of dwellings via their individual plumbing systems.

6. Air-conditioning -classified to one of the following two types:

a) ducted (i.e. 'central') in which air cooled by an air-conditioning unit is circulated to outlets in a number of rooms via ducting; and

b) non-ducted (single) units, which may be portable or built into a wall or window, or which mainly provide cooling only to the rooms in which they are located.

7. Both types of air-conditioning can be further classified as:

(i) Evaporative air-conditioning - uses water which needs to be regularly replenished, or

(ii) Refrigerative air-conditioning - does not use water. Air is cooled by passing over gas filled tubing. Includes all reverse cycle air-conditioners.

#### 8. Types of insulation -

(a) Foil - a flexible, reflective metallic sheet.

(b) Batt/blanket -asbestos, wool or glass fibre, or similar material.

(c) Granular/loose fill -fine grain material blown into the roof or wall cavity in a loose form.

(d) Foam - pumped into the ceiling/walls in a liquid form then solidifies.

9. Metropolitan/non-metropolitan area - In any State, the metropolitan area is defined as being the Capital City Statistical Division. All other Statistical Divisions are classified as non-metropolitan.

#### Interpretation of results

10. The following factors should be

considered when interpreting the estimates in this publication:

(a) this survey measured the appliances held by a household. These may be owned by the household, rented as part of the premises, or hired;

(b) appliances (except refrigerators) in working order were reported even if they were not used by the respondent. If an appliance did not work but the respondent intended to have it repaired, it was included in the survey response;

(c) refrigerators not in continuous use were excluded.

#### Symbols and other usages

.. not applicable

- nil

\* subject to sampling variability too high for most practical uses (see paragraph 4)

11. Where figures have been rounded, discrepancies may occur between sums of the component items and totals.

TABLE 1. HOUSEHOLDS BY MAJOR APPLIANCES AND FACILITIES, NOVEMBER 1980  
( '000)

|                                    | N.S.W. | Vic.   | Qld   | S.A.  | W.A.  | Tas.  | N.T. | A.C.T. | Australia |
|------------------------------------|--------|--------|-------|-------|-------|-------|------|--------|-----------|
| Electric refrigerator              | 1666.1 | 1242.3 | 710.3 | 441.2 | 407.1 | 131.7 | 29.4 | 69.6   | 4697.7    |
| One door electric refrigerator (a) | 1031.4 | 833.7  | 429.2 | 277.4 | 268.0 | 94.0  | 19.9 | 37.0   | 2990.5    |
| Two door electric refrigerator (a) | 773.8  | 492.6  | 353.1 | 203.4 | 178.0 | 41.3  | 14.0 | 36.7   | 2092.9    |
| Non-electric refrigerator          | 5.4    | *      | 8.5   | *     | 3.1   | *     | *    | -      | 21.6      |
| Deep freezer                       | 690.2  | 503.9  | 333.1 | 206.8 | 180.9 | 76.9  | 18.2 | 28.6   | 2038.7    |
| Stove                              | 1377.8 | 1001.5 | 602.4 | 377.2 | 344.6 | 117.7 | 25.5 | 45.3   | 3892.0    |
| Separate oven                      | 278.5  | 242.1  | 109.0 | 63.8  | 64.4  | 14.6  | 3.2  | 24.2   | 799.9     |
| Hotplates only                     | 11.8   | 3.7    | 4.9   | *     | *     | *     | *    | *      | 25.4      |
| Microwave oven (b)                 | 71.8   | 33.6   | 25.4  | 12.6  | 14.9  | 2.8   | *    | 3.2    | 165.6     |
| Electric frypan/skillet (b)        | 682.6  | 401.6  | 359.1 | 185.5 | 161.4 | 68.2  | 14.3 | 30.9   | 1903.5    |
| Vertical grill (b)                 | 166.9  | 103.2  | 50.8  | 50.6  | 28.5  | 14.6  | 2.6  | 6.0    | 423.2     |
| Crockpot (b)                       | 82.6   | 40.4   | 44.6  | 26.7  | 20.5  | 8.1   | 3.2  | 4.4    | 230.4     |
| Dishwasher                         | 227.9  | 190.5  | 108.4 | 39.4  | 39.5  | 14.2  | 3.4  | 17.4   | 640.7     |
| Washing machine -                  |        |        |       |       |       |       |      |        |           |
| Automatic                          | 995.1  | 764.1  | 368.6 | 194.4 | 193.7 | 69.0  | 20.4 | 56.0   | 2661.3    |
| Other                              | 526.4  | 359.5  | 300.5 | 218.4 | 178.8 | 59.3  | 7.8  | 9.5    | 1660.1    |
| Total                              | 1521.6 | 1123.6 | 669.0 | 412.8 | 372.5 | 128.3 | 28.2 | 65.5   | 4321.4    |
| Clothes drier(c) -                 |        |        |       |       |       |       |      |        |           |
| Rotary                             | 625.0  | 488.7  | 198.4 | 133.2 | 80.5  | 61.4  | 8.8  | 30.8   | 1626.9    |
| Cabinet                            | 76.0   | 60.6   | 11.6  | 28.6  | 10.3  | 5.2   | *    | 2.8    | 195.4     |
| Total                              | 701.1  | 549.3  | 210.1 | 161.8 | 90.8  | 66.6  | 9.1  | 33.6   | 1822.3    |
| Hotwater system -                  |        |        |       |       |       |       |      |        |           |
| Shared                             | 38.1   | 36.2   | 15.8  | 4.2   | 8.0   | *     | *    | *      | 104.6     |
| Non-shared                         | 1584.6 | 1204.4 | 683.3 | 432.0 | 398.9 | 130.7 | 28.0 | 68.8   | 4530.6    |
| Total                              | 1622.8 | 1240.5 | 699.1 | 436.2 | 406.9 | 131.7 | 28.6 | 69.4   | 4635.1    |
| Central heating                    | 53.7   | 152.1  | 3.6   | 13.7  | 10.9  | 4.9   | *    | 10.2   | 249.6     |
| Oil heater                         | 200.0  | 184.5  | 15.4  | 78.2  | 93.0  | 45.7  | *    | 18.2   | 636.5     |
| Fixed electric heater              | 192.7  | 329.6  | 30.5  | 65.4  | 31.6  | 49.2  | 2.4  | 40.3   | 741.6     |
| Gas heater                         | 189.6  | 633.4  | 10.6  | 135.2 | 61.8  | 10.5  | *    | 7.0    | 1048.5    |
| Woodfire/solid fuel heating        | 247.8  | 259.7  | 53.5  | 97.3  | 104.4 | 62.1  | 2.0  | 10.9   | 837.8     |
| Portable heater                    | 1400.2 | 858.4  | 511.2 | 368.5 | 308.2 | 115.6 | 4.7  | 56.1   | 3622.9    |
| Air-conditioning                   | 453.2  | 323.1  | 103.1 | 224.6 | 156.1 | *     | 15.6 | 11.4   | 1288.3    |
| Wall insulation (d)                | 138.6  | 185.0  | 52.4  | 32.6  | 17.2  | 16.7  | 2.8  | 6.2    | 451.4     |
| Ceiling insulation (d)             | 541.8  | 654.0  | 97.4  | 227.9 | 154.2 | 47.8  | 11.1 | 48.8   | 1783.1    |
| Swimming pool -                    |        |        |       |       |       |       |      |        |           |
| With filter                        | 142.5  | 102.0  | 55.9  | 29.8  | 45.3  | 5.0   | 4.2  | 4.9    | 389.4     |
| No filter                          | 9.4    | 12.0   | 2.9   | *     | *     | *     | *    | *      | 27.9      |
| Total                              | 151.9  | 114.0  | 58.8  | 30.3  | 47.0  | 6.1   | 4.3  | 4.9    | 417.3     |
| All households                     | 1676.7 | 1249.0 | 722.5 | 443.0 | 412.8 | 133.4 | 30.1 | 69.7   | 4737.3    |

(a) Refers only to external doors. (b) Included only if used more than once a week. (c) Where a household owned more than one drier, only the one used most often was counted. (d) Excludes households in flats and mobile and improvised dwellings.

TABLE 2. HOUSEHOLDS BY TYPE OF MAJOR COOKING APPLIANCES AND BY TYPE OF FUEL, NOVEMBER 1980  
('000)

| Type of appliance              | N.S.W. | Vic.   | Qld   | S.A.  | W.A.  | Tas.  | N.T. | A.C.T. | Australia |
|--------------------------------|--------|--------|-------|-------|-------|-------|------|--------|-----------|
| Stove -                        |        |        |       |       |       |       |      |        |           |
| Electric                       | 948.9  | 412.5  | 423.4 | 195.9 | 173.4 | 109.7 | 22.5 | 43.1   | 2329.4    |
| Gas                            | 389.3  | 537.3  | 145.8 | 176.5 | 147.8 | 4.4   | 2.9  | 2.2    | 1406.2    |
| Wood                           | 36.9   | 48.4   | 31.3  | 4.4   | 22.6  | 3.5   | -    | -      | 147.0     |
| Total (a)                      | 1377.8 | 1001.5 | 602.4 | 377.2 | 344.6 | 117.7 | 25.5 | 45.3   | 3892.0    |
| Separate oven -                |        |        |       |       |       |       |      |        |           |
| Electric (b)                   | 261.8  | 169.5  | 103.3 | 49.2  | 55.9  | 14.4  | 3.1  | 24.2   | 681.4     |
| Gas                            | 16.8   | 72.6   | 5.6   | 14.6  | 8.5   | *     | *    | -      | 118.5     |
| Total (c)                      | 278.5  | 242.1  | 109.0 | 63.8  | 64.4  | 14.6  | 3.2  | 24.2   | 799.9     |
| Electric or gas hotplates only | 11.8   | 3.7    | 4.9   | *     | *     | *     | *    | *      | 25.4      |
| All households                 | 1676.7 | 1249.0 | 722.5 | 443.0 | 412.8 | 133.4 | 30.1 | 69.7   | 4737.3    |

(a) Includes stoves other than electric, gas, or wood. (b) Excludes microwave ovens. (c) Includes separate ovens with or without hotplates.

TABLE 3. DETAILS OF NON-SHARED HOTWATER SYSTEMS BY METROPOLITAN/NON-METROPOLITAN AREAS, NOVEMBER 1980  
( '000 households)

| Type of hotwater system           | N.S.W. | Vic.   | Qld   | S.A.  | W.A.  | Tas.  | N.T.(a) | A.C.T.(a) | Australia |
|-----------------------------------|--------|--------|-------|-------|-------|-------|---------|-----------|-----------|
| METROPOLITAN                      |        |        |       |       |       |       |         |           |           |
| Single systems -                  |        |        |       |       |       |       |         |           |           |
| Electric                          | 802.9  | 386.0  | 267.9 | 148.2 | 119.3 | 49.8  | 17.6    | 60.0      | 1851.7    |
| Gas                               | 168.5  | 424.8  | 48.7  | 143.0 | 78.0  | *     | *       | *         | 865.3     |
| Solar (b)                         | 12.3   | *      | 5.6   | 3.7   | 41.8  | -     | 9.6     | *         | 74.7      |
| Other                             | *      | 24.6   | 2.6   | *     | 42.9  | *     | -       | *         | 72.0      |
| Total                             | 984.9  | 836.3  | 324.8 | 295.3 | 282.0 | 50.4  | 27.6    | 62.6      | 2863.8    |
| Multiple systems -                |        |        |       |       |       |       |         |           |           |
| Electric only                     | 12.5   | *      | *     | 10.6  | *     | *     | -       | 5.0       | 32.1      |
| Other types                       | 9.2    | 5.3    | *     | 6.4   | 2.3   | -     | *       | -         | 23.9      |
| Total                             | 21.7   | 7.9    | *     | 17.0  | 3.0   | *     | *       | 5.0       | 56.0      |
| Types unknown                     | 12.4   | 10.1   | *     | 5.9   | 4.2   | *     | *       | *         | 37.5      |
| Total non-shared hotwater systems | 1018.9 | 854.3  | 328.0 | 318.2 | 289.2 | 51.9  | 28.0    | 68.8      | 2957.3    |
| NON-METROPOLITAN                  |        |        |       |       |       |       |         |           |           |
| Single systems -                  |        |        |       |       |       |       |         |           |           |
| Electric                          | 455.5  | 208.0  | 285.1 | 87.0  | 18.6  | 72.9  | ..      | ..        | 1127.2    |
| Gas                               | 49.6   | 80.1   | 22.0  | 14.7  | 30.1  | *     | ..      | ..        | 197.8     |
| Solar (b)                         | 8.0    | *      | 12.0  | 3.7   | 15.0  | -     | ..      | ..        | 40.7      |
| Other                             | 32.9   | 57.3   | 32.5  | 2.9   | 44.2  | 2.6   | ..      | ..        | 172.5     |
| Total                             | 546.1  | 347.4  | 351.7 | 108.3 | 108.0 | 76.7  | ..      | ..        | 1538.2    |
| Multiple systems-                 |        |        |       |       |       |       |         |           |           |
| Electric only                     | 8.8    | *      | *     | 2.0   | *     | *     | ..      | ..        | 12.8      |
| Other types                       | *      | *      | *     | *     | *     | *     | ..      | ..        | 4.8       |
| Total                             | 11.8   | *      | *     | 2.1   | *     | *     | ..      | ..        | 17.5      |
| Types unknown                     | 7.8    | *      | 2.7   | 3.3   | *     | 1.5   | ..      | ..        | 17.5      |
| Total non-shared hotwater systems | 565.7  | 350.0  | 355.3 | 113.8 | 109.7 | 78.8  | ..      | ..        | 1573.3    |
| TOTAL                             |        |        |       |       |       |       |         |           |           |
| Single systems-                   |        |        |       |       |       |       |         |           |           |
| Electric                          | 1258.5 | 594.0  | 553.0 | 235.2 | 137.9 | 122.7 | 17.6    | 60.0      | 2979.0    |
| Gas                               | 218.1  | 504.9  | 70.7  | 157.8 | 108.2 | 1.5   | *       | *         | 1063.2    |
| Solar(b)                          | 20.3   | *      | 17.6  | 7.4   | 56.8  | -     | 9.6     | *         | 115.4     |
| Other                             | 34.1   | 81.9   | 35.1  | 3.2   | 87.1  | 3.0   | -       | *         | 244.5     |
| Total                             | 1530.9 | 1183.7 | 676.5 | 403.6 | 389.9 | 127.1 | 27.6    | 62.6      | 4402.0    |
| Multiple systems-                 |        |        |       |       |       |       |         |           |           |
| Electric only                     | 21.3   | *      | *     | 12.6  | *     | *     | -       | 5.0       | 44.9      |
| Other types                       | 12.2   | 6.2    | *     | 6.5   | 2.7   | *     | *       | -         | 28.6      |
| Total                             | 33.5   | 9.4    | *     | 19.2  | 3.5   | *     | *       | 5.0       | 73.6      |
| Types unknown                     | 20.3   | 11.2   | 4.8   | 9.2   | 5.4   | 2.7   | *       | *         | 55.0      |
| Total non-shared hotwater systems | 1584.7 | 1204.4 | 683.3 | 432.0 | 398.9 | 130.7 | 28.0    | 68.8      | 4530.6    |

(a) All figures for N.T. and A.C.T. are included under metropolitan. (b) Solar includes gas/electric boosted solar hotwater systems.

TABLE 4. HOUSEHOLDS BY TYPE OF HEATING APPLIANCES (a), NOVEMBER 1980  
( '000)

| Type of heating appliance        | N.S.W. | Vic.   | Qld   | S.A.  | W.A.  | Tas.  | N.T. | A.C.T. | Australia |
|----------------------------------|--------|--------|-------|-------|-------|-------|------|--------|-----------|
| Fixed only -                     |        |        |       |       |       |       |      |        |           |
| Central heating only             | 18.5   | 57.7   | *     | 3.2   | 5.0   | *     | *    | 2.5    | 89.5      |
| Fixed electric only              | 15.5   | 41.8   | 4.3   | 5.1   | 2.6   | 3.2   | *    | 6.7    | 80.2      |
| Gas only                         | 46.9   | 160.7  | 2.5   | 28.6  | 19.0  | *     | *    | *      | 258.9     |
| Oil only                         | 38.9   | 30.9   | 2.6   | 10.8  | 23.7  | 2.8   | *    | *      | 111.1     |
| Woodfire/solid fuel only         | 34.5   | 20.4   | 12.0  | 8.8   | 18.9  | 6.0   | *    | *      | 102.0     |
| Combinations (of above)          | 24.0   | 69.5   | 3.7   | 8.4   | 9.4   | 4.2   | *    | 2.4    | 122.8     |
| Portable only                    | 828.0  | 92.7   | 437.6 | 110.5 | 129.9 | 8.4   | 3.5  | 5.4    | 1616.0    |
| Fixed and portable combinations- |        |        |       |       |       |       |      |        |           |
| Central heating and portable     | 30.2   | 60.9   | *     | 8.2   | 4.5   | 1.7   | -    | 6.2    | 113.2     |
| Fixed electric and portable      | 92.6   | 77.1   | 17.2  | 22.5  | 7.3   | 12.7  | *    | 16.0   | 245.6     |
| Gas and portable                 | 96.8   | 255.9  | 5.3   | 80.6  | 28.5  | 4.6   | -    | 2.9    | 474.8     |
| Oil and portable                 | 109.3  | 88.6   | 8.8   | 46.5  | 50.0  | 23.2  | *    | 11.5   | 338.6     |
| Woodfire/solid fuel and portable | 152.0  | 96.3   | 31.6  | 58.4  | 60.7  | 30.3  | -    | 3.6    | 432.8     |
| Other combinations               | 91.5   | 186.8  | 9.1   | 41.9  | 27.3  | 34.6  | *    | 10.6   | 402.0     |
| No heating appliances            | 98.2   | 9.6    | 184.8 | 9.5   | 26.0  | *     | 21.2 | *      | 349.8     |
| All households                   | 1676.7 | 1249.0 | 722.5 | 443.0 | 412.8 | 133.4 | 30.1 | 69.7   | 4737.3    |

(a) Excluding air-conditioners.



TABLE 5. HOUSEHOLDS BY NUMBER AND TYPE OF PORTABLE HEATERS, STATES AND TERRITORIES, NOVEMBER 1980  
('000)

| Type of portable heater | Number of portable heaters per household |       |       |               | Total  |
|-------------------------|------------------------------------------|-------|-------|---------------|--------|
|                         | Nil                                      | One   | Two   | Three or more |        |
| NEW SOUTH WALES         |                                          |       |       |               |        |
| Electric only           | ..                                       | 685.7 | 328.7 | 132.9         | 1147.3 |
| Kerosene only           | ..                                       | 87.8  | 7.4   | *             | 96.5   |
| Electric and kerosene   | ..                                       | ..    | 96.4  | 60.1          | 156.4  |
| Total, portable heaters | ..                                       | 773.4 | 432.4 | 194.4         | 1400.2 |
| All households          | 276.5                                    | 773.4 | 432.4 | 194.4         | 1676.7 |
| VICTORIA                |                                          |       |       |               |        |
| Electric only           | ..                                       | 481.6 | 174.8 | 65.6          | 722.0  |
| Kerosene only           | ..                                       | 49.3  | 5.3   | -             | 54.6   |
| Electric and kerosene   | ..                                       | ..    | 47.1  | 34.7          | 81.8   |
| Total, portable heaters | ..                                       | 530.8 | 227.2 | 100.4         | 858.4  |
| All households          | 390.7                                    | 530.8 | 227.2 | 100.4         | 1249.0 |
| QUEENSLAND              |                                          |       |       |               |        |
| Electric only           | ..                                       | 264.3 | 73.4  | 14.5          | 352.2  |
| Kerosene only           | ..                                       | 84.7  | 5.1   | *             | 89.9   |
| Electric and kerosene   | ..                                       | ..    | 44.5  | 24.6          | 69.1   |
| Total, portable heaters | ..                                       | 349.0 | 123.0 | 39.2          | 511.2  |
| All households          | 211.3                                    | 349.0 | 123.0 | 39.2          | 722.5  |
| SOUTH AUSTRALIA         |                                          |       |       |               |        |
| Electric only           | ..                                       | 170.8 | 85.3  | 29.5          | 285.5  |
| Kerosene only           | ..                                       | 23.5  | 3.3   | *             | 27.2   |
| Electric and kerosene   | ..                                       | ..    | 33.3  | 22.4          | 55.7   |
| Total, portable heaters | ..                                       | 194.3 | 121.8 | 52.3          | 368.5  |
| All households          | 74.5                                     | 194.3 | 121.8 | 52.3          | 443.0  |
| WESTERN AUSTRALIA       |                                          |       |       |               |        |
| Electric only           | ..                                       | 131.7 | 41.9  | 9.6           | 183.1  |
| Kerosene only           | ..                                       | 64.2  | 6.1   | *             | 70.9   |
| Electric and kerosene   | ..                                       | ..    | 35.1  | 19.0          | 54.1   |
| Total, portable heaters | ..                                       | 195.9 | 83.1  | 29.2          | 308.2  |
| All households          | 104.7                                    | 195.9 | 83.1  | 29.2          | 412.8  |

TABLE 5. HOUSEHOLDS BY NUMBER AND TYPE OF PORTABLE HEATERS, STATES AND TERRITORIES, NOVEMBER 1980 - continued  
( '000)

| Type of portable heater      | Number of portable heaters per household |        |        |               |        |
|------------------------------|------------------------------------------|--------|--------|---------------|--------|
|                              | Nil                                      | One    | Two    | Three or more | Total  |
| TASMANIA                     |                                          |        |        |               |        |
| Electric only                | ..                                       | 50.7   | 24.4   | 12.9          | 88.0   |
| Kerosene only                | ..                                       | 7.7    | *      | *             | 8.4    |
| Electric and kerosene        | ..                                       | ..     | 11.3   | 7.8           | 19.2   |
| Total, portable heaters      | ..                                       | 58.3   | 36.4   | 20.9          | 115.6  |
| All households               | 17.8                                     | 58.3   | 36.4   | 20.9          | 133.4  |
| NORTHERN TERRITORY           |                                          |        |        |               |        |
| Electric only                | ..                                       | 3.4    | *      | -             | 4.0    |
| Kerosene only                | ..                                       | *      | -      | -             | *      |
| Electric and kerosene        | ..                                       | ..     | *      | *             | *      |
| Total, portable heaters      | ..                                       | 3.7    | *      | *             | 4.7    |
| All households               | 25.4                                     | 3.7    | *      | *             | 30.1   |
| AUSTRALIAN CAPITAL TERRITORY |                                          |        |        |               |        |
| Electric only                | ..                                       | 20.1   | 17.5   | 13.5          | 51.1   |
| Kerosene only                | ..                                       | *      | -      | -             | *      |
| Electric and kerosene        | ..                                       | ..     | *      | 2.2           | 3.9    |
| Total, portable heaters      | ..                                       | 21.1   | 19.2   | 15.8          | 56.1   |
| All households               | 13.6                                     | 21.1   | 19.2   | 15.8          | 69.7   |
| AUSTRALIA                    |                                          |        |        |               |        |
| Electric only                | ..                                       | 1808.1 | 746.6  | 278.6         | 2833.3 |
| Kerosene only                | ..                                       | 318.4  | 27.8   | *             | 348.9  |
| Electric and kerosene        | ..                                       | ..     | 269.6  | 171.1         | 440.7  |
| Total, portable heaters      | ..                                       | 2126.6 | 1044.0 | 452.4         | 3622.9 |
| All households               | 1114.4                                   | 2126.6 | 1044.0 | 452.4         | 4737.3 |

TABLE 6. HOUSEHOLDS BY TYPE OF NON-SHARED AIR-CONDITIONING, NOVEMBER 1980  
('000)

| Type of air-conditioning                                 | N.S.W.       | Vic.         | Qld          | S.A.         | W.A.         | Tas.     | N.T.        | A.C.T.      | Australia     |
|----------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|----------|-------------|-------------|---------------|
| <b>Ducted-</b>                                           |              |              |              |              |              |          |             |             |               |
| Reverse cycle                                            | 32.1         | 14.8         | *            | 9.0          | 8.3          | *        | *           | *           | 68.1          |
| Other refrigerative                                      | 3.6          | 4.9          | *            | *            | 3.6          | -        | *           | *           | 14.2          |
| Evaporative                                              | 17.9         | 9.2          | 6.8          | 5.3          | 3.7          | -        | 3.5         | -           | 46.4          |
| <u>Total (a)</u>                                         | <u>54.1</u>  | <u>29.9</u>  | <u>10.3</u>  | <u>15.2</u>  | <u>15.9</u>  | <u>*</u> | <u>4.4</u>  | <u>*</u>    | <u>131.3</u>  |
| <b>Non-ducted-</b>                                       |              |              |              |              |              |          |             |             |               |
| Reverse cycle only                                       | 146.2        | 79.6         | 19.2         | 83.0         | 45.5         | *        | 2.1         | 2.7         | 378.5         |
| Other refrigerative only                                 | 60.5         | 83.2         | 16.7         | 58.0         | 34.3         | *        | 6.0         | *           | 259.5         |
| Evaporative only                                         | 160.1        | 113.3        | 49.9         | 52.4         | 48.7         | *        | *           | 7.0         | 433.1         |
| Other (b)                                                | 31.6         | 15.5         | 5.8          | 16.0         | 10.5         | *        | *           | *           | 81.4          |
| <u>Total</u>                                             | <u>398.4</u> | <u>291.7</u> | <u>91.7</u>  | <u>209.4</u> | <u>139.0</u> | <u>*</u> | <u>11.2</u> | <u>10.6</u> | <u>1152.6</u> |
| <b>Total households with non-shared air-conditioning</b> | <b>452.5</b> | <b>321.6</b> | <b>102.0</b> | <b>224.6</b> | <b>155.0</b> | <b>*</b> | <b>15.6</b> | <b>11.4</b> | <b>1283.9</b> |

(a) Includes air-conditioning whose type (evaporative or refrigerative) is unknown to the householder. (b) Includes combinations of non-ducted air-conditioners.

TABLE 7. SINGLE HOUSEHOLD DWELLINGS BY TYPE OF CEILING INSULATION BY MATERIAL OF OUTER WALLS, NOVEMBER 1980  
(Excludes flats and mobile and improvised dwellings)  
('000)

| Details of insulation  | N.S.W. | Vic.  | Qld   | S.A.  | W.A.  | Tas. | N.T. | A.C.T. | Australia |
|------------------------|--------|-------|-------|-------|-------|------|------|--------|-----------|
| BRICK VENEER           |        |       |       |       |       |      |      |        |           |
| Type of insulation-    |        |       |       |       |       |      |      |        |           |
| Foil                   | 45.7   | 21.0  | 16.0  | 3.0   | 3.2   | 2.1  | *    | 2.1    | 93.9      |
| Batt/blanket           | 124.8  | 179.8 | 16.5  | 30.3  | 9.1   | 12.6 | *    | 14.0   | 387.3     |
| Granular/loose fill    | 23.2   | 122.1 | *     | 6.3   | *     | 6.2  | -    | 17.3   | 177.8     |
| Other                  | 7.5    | 20.1  | *     | *     | *     | *    | -    | 2.4    | 34.5      |
| Type unknown           | 12.2   | 26.9  | 2.5   | 5.8   | *     | *    | -    | 3.4    | 53.6      |
| Total                  | 213.5  | 369.9 | 37.0  | 46.5  | 16.9  | 23.2 | *    | 39.2   | 747.1     |
| No insulation          | 30.3   | 39.6  | 16.8  | 3.9   | 2.4   | 2.8  | *    | 5.6    | 102.9     |
| Not known if insulated | 132.7  | 109.8 | 77.8  | 19.4  | 17.4  | 15.4 | *    | 5.5    | 378.6     |
| Total                  | 376.5  | 519.3 | 131.6 | 69.8  | 36.7  | 41.4 | 3.0  | 50.3   | 1228.6    |
| DOUBLE BRICK           |        |       |       |       |       |      |      |        |           |
| Type of insulation-    |        |       |       |       |       |      |      |        |           |
| Foil                   | 15.6   | 5.4   | 3.1   | 6.7   | 14.3  | *    | 2.4  | *      | 48.1      |
| Batt/blanket           | 60.0   | 38.1  | 3.4   | 88.1  | 47.8  | 2.7  | *    | 2.1    | 242.4     |
| Granular/loose fill    | 7.0    | 13.0  | *     | 18.0  | 21.9  | *    | -    | 3.4    | 64.6      |
| Other                  | *      | *     | -     | 7.1   | 7.6   | *    | -    | *      | 22.1      |
| Type unknown           | 6.0    | 6.3   | *     | 12.4  | 10.4  | *    | *    | *      | 37.3      |
| Total                  | 91.9   | 66.1  | 7.6   | 132.4 | 101.9 | 4.5  | 3.2  | 7.0    | 414.6     |
| No insulation          | 30.4   | 19.4  | 4.5   | 17.7  | 21.9  | 1.8  | 2.4  | *      | 99.8      |
| Not known if insulated | 209.4  | 59.6  | 16.6  | 79.0  | 99.9  | 5.8  | *    | *      | 473.0     |
| Total                  | 331.6  | 145.1 | 28.7  | 229.1 | 223.7 | 12.1 | 7.0  | 10.1   | 987.3     |
| WEATHERBOARD/TIMBER    |        |       |       |       |       |      |      |        |           |
| Type of insulation-    |        |       |       |       |       |      |      |        |           |
| Foil                   | 12.1   | 7.3   | 9.2   | *     | *     | *    | *    | *      | 31.6      |
| Batt/blanket           | 60.7   | 92.2  | 13.4  | 3.1   | 3.8   | 7.6  | -    | *      | 181.2     |
| Granular/loose fill    | 12.6   | 40.1  | *     | *     | *     | 3.7  | -    | *      | 58.9      |
| Other                  | 5.2    | 9.0   | *     | *     | *     | *    | *    | *      | 17.2      |
| Type unknown           | *      | 7.9   | *     | *     | *     | *    | -    | -      | 14.0      |
| Total                  | 93.6   | 156.5 | 26.3  | 6.0   | 5.3   | 13.8 | *    | *      | 302.8     |
| No insulation          | 21.0   | 23.4  | 29.6  | *     | *     | 2.6  | *    | -      | 79.1      |
| Not known if insulated | 201.5  | 178.5 | 278.3 | 6.3   | 16.4  | 40.1 | *    | *      | 722.0     |
| Total                  | 316.2  | 358.5 | 334.2 | 12.7  | 23.3  | 56.5 | *    | *      | 1104.0    |

TABLE 7. SINGLE HOUSEHOLD DWELLINGS BY TYPE OF CEILING INSULATION BY MATERIAL OF OUTER WALLS, NOVEMBER 1980 - continued  
(Excludes flats and mobile and improvised dwellings)  
( '000)

| Details of insulation  | N.S.W. | Vic.   | Qld   | S.A.  | W.A.  | Tas.  | N.T. | A.C.T. | Australia |
|------------------------|--------|--------|-------|-------|-------|-------|------|--------|-----------|
| FIBRO/ASBESTOS         |        |        |       |       |       |       |      |        |           |
| Type of insulation-    |        |        |       |       |       |       |      |        |           |
| Foil                   | 17.9   | *      | 5.3   | 3.4   | 7.9   | *     | 2.0  | -      | 40.3      |
| Batt/blanket           | 76.8   | 16.8   | 6.7   | 10.6  | 10.4  | *     | *    | -      | 122.5     |
| Granular/loose fill    | 8.3    | 4.4    | *     | *     | 2.2   | *     | -    | -      | 17.3      |
| Other                  | *      | *      | *     | *     | *     | -     | -    | -      | 9.7       |
| Type unknown           | 5.4    | *      | *     | 2.1   | *     | *     | *    | -      | 10.4      |
| Total                  | 111.6  | 27.1   | 14.4  | 18.7  | 23.4  | 2.3   | 2.7  | -      | 200.3     |
| No insulation          | 22.7   | 3.5    | 16.3  | 3.0   | 10.1  | *     | 2.3  | -      | 58.0      |
| Not known if insulated | 183.4  | 20.8   | 76.6  | 14.3  | 50.9  | 3.2   | *    | *      | 350.4     |
| Total                  | 317.6  | 51.4   | 107.3 | 36.0  | 84.3  | 5.7   | 4.1  | *      | 608.6     |
| OTHER                  |        |        |       |       |       |       |      |        |           |
| Type of insulation-    |        |        |       |       |       |       |      |        |           |
| Foil                   | 3.8    | *      | 4.9   | 2.3   | 2.2   | *     | 2.4  | *      | 18.5      |
| Batt/blanket           | 20.3   | 17.5   | 5.0   | 15.7  | 2.9   | 2.1   | *    | *      | 64.8      |
| Granular/loose fill    | *      | 9.2    | *     | 2.9   | *     | *     | -    | *      | 17.9      |
| Other                  | *      | *      | *     | *     | *     | *     | -    | *      | 9.6       |
| Type unknown           | *      | *      | *     | 2.2   | *     | *     | *    | *      | 7.5       |
| Total                  | 31.2   | 34.4   | 12.1  | 24.4  | 6.7   | 4.0   | 3.9  | *      | 118.3     |
| No insulation          | 6.8    | 5.8    | 9.6   | 6.9   | *     | *     | 2.5  | *      | 33.5      |
| Not known if insulated | 43.3   | 24.8   | 40.4  | 48.4  | 8.1   | 5.9   | *    | *      | 172.5     |
| Total                  | 81.2   | 65.0   | 62.1  | 79.7  | 15.9  | 10.4  | 7.7  | 2.1    | 324.3     |
| TOTAL HOUSEHOLDS       |        |        |       |       |       |       |      |        |           |
| Type of insulation-    |        |        |       |       |       |       |      |        |           |
| Foil                   | 95.1   | 39.5   | 38.5  | 16.3  | 28.3  | 4.4   | 7.6  | 2.8    | 232.4     |
| Batt/blanket           | 342.6  | 344.3  | 44.9  | 147.7 | 74.0  | 25.9  | 2.0  | 16.9   | 998.2     |
| Granular/loose fill    | 54.5   | 188.8  | 3.0   | 29.7  | 26.7  | 12.3  | -    | 21.6   | 336.5     |
| Other                  | 21.6   | 38.0   | 5.1   | 11.3  | 11.3  | 2.5   | *    | 3.1    | 93.1      |
| Type unknown           | 28.0   | 43.5   | 5.9   | 23.0  | 13.9  | 2.8   | *    | 4.5    | 122.8     |
| Total                  | 541.8  | 654.0  | 97.4  | 227.9 | 154.2 | 47.9  | 11.1 | 48.8   | 1783.1    |
| No insulation          | 111.1  | 91.7   | 76.8  | 32.0  | 37.1  | 7.9   | 9.1  | 7.6    | 373.3     |
| Not known if insulated | 770.3  | 393.6  | 489.7 | 167.4 | 192.7 | 70.3  | 5.0  | 7.5    | 2096.5    |
| Total households       | 1423.2 | 1139.2 | 663.9 | 427.3 | 384.0 | 126.1 | 25.2 | 63.9   | 4252.9    |

TABLE 8. SINGLE HOUSEHOLD DWELLINGS BY TYPE OF WALL INSULATION - continued  
 BY MATERIAL OF OUTER WALLS, NOVEMBER 1980  
 (EXCLUDES FLATS AND MOBILE AND IMPROVISED DWELLINGS)  
 ('000)

| Details of insulation  | N.S.W. | Vic.   | Qld   | S.A.  | W.A.  | Tas.  | N.T. | A.C.T. | Australia |
|------------------------|--------|--------|-------|-------|-------|-------|------|--------|-----------|
| FIBRO/ASBESTOS         |        |        |       |       |       |       |      |        |           |
| Type of insulation-    |        |        |       |       |       |       |      |        |           |
| Foil                   | 16.4   | 8.9    | 4.1   | 4.8   | 5.7   | *     | *    | -      | 41.6      |
| Batt/blanket           | 10.1   | *      | *     | 2.8   | *     | -     | -    | -      | 18.6      |
| Other                  | 3.8    | *      | 2.6   | *     | *     | *     | *    | -      | 9.6       |
| Total                  | 30.4   | 12.0   | 8.5   | 8.6   | 8.0   | *     | *    | -      | 69.7      |
| No insulation          | 30.0   | 7.8    | 13.3  | 4.5   | 10.7  | *     | 2.0  | -      | 68.5      |
| Not known if insulated | 257.3  | 31.7   | 85.6  | 22.9  | 65.7  | 4.1   | 3.0  | *      | 470.4     |
| Total                  | 317.6  | 51.4   | 107.3 | 36.0  | 84.3  | 5.7   | 6.1  | *      | 608.6     |
| OTHER                  |        |        |       |       |       |       |      |        |           |
| Type of insulation-    |        |        |       |       |       |       |      |        |           |
| Foil                   | 3.9    | 5.6    | 3.9   | *     | *     | *     | *    | -      | 16.7      |
| Batt/blanket           | *      | *      | *     | *     | *     | *     | *    | *      | 5.2       |
| Other                  | 13.6   | 4.0    | *     | *     | *     | *     | -    | -      | 20.5      |
| Total                  | 19.6   | 10.3   | 6.3   | 2.7   | *     | *     | *    | *      | 42.3      |
| No insulation          | 8.4    | 8.1    | 5.8   | 6.4   | *     | *     | 3.0  | *      | 34.1      |
| Not known if insulated | 53.3   | 46.5   | 50.1  | 70.6  | 13.3  | 8.6   | 3.7  | *      | 247.8     |
| Total                  | 81.2   | 65.0   | 62.1  | 79.7  | 15.9  | 10.4  | 7.7  | 2.1    | 324.3     |
| TOTAL HOUSEHOLDS       |        |        |       |       |       |       |      |        |           |
| Type of insulation-    |        |        |       |       |       |       |      |        |           |
| Foil                   | 70.5   | 142.2  | 37.7  | 15.2  | 9.0   | 13.3  | 1.8  | 2.2    | 292.0     |
| Batt/blanket           | 40.4   | 24.4   | 6.6   | 13.7  | 4.0   | 1.7   | *    | 2.1    | 93.2      |
| Other                  | 27.7   | 18.4   | 8.1   | 3.6   | 4.2   | 1.7   | *    | *      | 66.3      |
| Total                  | 138.6  | 185.0  | 52.4  | 32.6  | 17.2  | 16.8  | 2.8  | 6.2    | 451.4     |
| No insulation          | 168.3  | 189.6  | 73.1  | 51.6  | 44.3  | 13.7  | 10.0 | 13.6   | 564.2     |
| Not known if insulated | 1116.3 | 764.6  | 538.5 | 343.2 | 322.5 | 95.7  | 12.5 | 44.1   | 3237.2    |
| Total households       | 1423.2 | 1139.2 | 663.9 | 427.3 | 384.0 | 126.1 | 25.2 | 63.9   | 4252.9    |

TABLE 8. SINGLE HOUSEHOLD DWELLINGS BY TYPE OF WALL INSULATION  
BY MATERIAL OF OUTER WALLS, NOVEMBER 1980  
(EXCLUDES FLATS AND MOBILE AND IMPROVISED DWELLINGS)  
('000)

| Details of insulation  | N.S.W. | Vic.  | Qld   | S.A.  | W.A.  | Tas. | N.T. | A.C.T. | Australia |
|------------------------|--------|-------|-------|-------|-------|------|------|--------|-----------|
| BRICK VENEER           |        |       |       |       |       |      |      |        |           |
| Type of insulation-    |        |       |       |       |       |      |      |        |           |
| Foil                   | 33.1   | 100.0 | 20.0  | 4.4   | *     | 9.4  | -    | 2.1    | 170.4     |
| Batt/blanket           | 15.6   | 9.4   | *     | 4.9   | *     | *    | -    | *      | 34.8      |
| Other                  | 5.6    | 7.4   | *     | *     | *     | *    | -    | *      | 19.0      |
| Total                  | 54.4   | 116.8 | 23.6  | 10.6  | 2.5   | 11.0 | -    | 5.4    | 224.2     |
| No insulation          | 57.9   | 106.7 | 22.2  | 10.3  | 3.6   | 6.1  | *    | 11.2   | 219.6     |
| Not known if insulated | 264.3  | 295.8 | 85.8  | 48.9  | 30.7  | 24.4 | *    | 33.7   | 784.8     |
| Total                  | 376.5  | 519.3 | 131.6 | 69.8  | 36.7  | 41.4 | 3.0  | 50.3   | 1228.6    |
| DOUBLE BRICK           |        |       |       |       |       |      |      |        |           |
| Type of insulation-    |        |       |       |       |       |      |      |        |           |
| Foil                   | 4.0    | 8.0   | *     | 3.1   | *     | *    | *    | *      | 19.3      |
| Batt/blanket           | 4.5    | *     | *     | 3.5   | *     | *    | -    | *      | 12.0      |
| Other                  | *      | *     | -     | *     | *     | *    | *    | *      | 5.7       |
| Total                  | 9.9    | 11.9  | 2.6   | 7.1   | 3.3   | *    | *    | *      | 37.0      |
| No insulation          | 34.9   | 24.7  | 4.3   | 28.8  | 27.3  | 2.2  | 2.8  | 1.9    | 126.9     |
| Not known if insulated | 286.9  | 108.4 | 21.8  | 193.2 | 193.0 | 8.7  | 3.9  | 7.5    | 823.4     |
| Total                  | 331.6  | 145.1 | 28.7  | 229.1 | 223.7 | 12.1 | 7.0  | 10.1   | 987.3     |
| WEATHERBOARD/TIMBER    |        |       |       |       |       |      |      |        |           |
| Type of insulation-    |        |       |       |       |       |      |      |        |           |
| Foil                   | 13.0   | 19.7  | 7.3   | *     | *     | *    | *    | -      | 44.0      |
| Batt/blanket           | 8.1    | 9.5   | *     | *     | *     | *    | *    | -      | 22.7      |
| Other                  | *      | 4.7   | *     | *     | *     | *    | -    | -      | 11.5      |
| Total                  | 24.4   | 34.0  | 11.5  | 3.5   | 2.0   | 2.5  | *    | -      | 78.2      |
| No insulation          | 37.2   | 42.4  | 27.5  | *     | *     | 4.1  | *    | *      | 115.0     |
| Not known if insulated | 254.5  | 282.2 | 295.2 | 7.6   | 19.7  | 49.9 | *    | *      | 910.8     |
| Total                  | 316.2  | 358.5 | 334.2 | 12.7  | 23.3  | 56.5 | *    | *      | 1104.0    |

# APPENDIX 1 TECHNICAL NOTE

## Estimation procedure

The estimates are derived from the population survey by use of a complex ratio estimation procedure, which ensures that the survey estimates conform to an independently estimated distribution of the population rather than to the distribution within the sample itself.

## Reliability of the estimates

2. Since the estimates in this publication are based on information obtained from a sample of households they are subject to sampling variability; that is, they may differ from the figures that would have been produced if all households had been included in the survey. One measure of the likely difference is given by the standard error, which indicates the extent to which an estimate might have varied by chance because only a sample of households was included. There are about two chances in three that a sample estimate will differ by less than one standard error from the figure that would have been obtained if all households had been included, and about nineteen chances in twenty that the difference will be less than two standard errors. The standard error can also be expressed as a percentage of the estimate, and this is known as the relative standard error.

3. Space does not allow for the separate indication of the standard errors of all estimates in this publication. A table of standard errors for general application to estimates is given below. These figures will not give a precise measure of the standard error of a particular estimate, but they will provide an indication of its magnitude. An example of the calculation and use of standard error is as follows:

The estimated number of households in Australia with central

heating is 89,500 (Table 4). From Table A below it will be seen that the estimate has a standard error of about 3,800 and therefore about two chances in three that the value that would have been produced if all households had been included in the survey will fall within the range 85,700 to 93,300 and about nineteen chances in twenty that the value will fall within the range 81,900 to 97,100.

4. As the standard errors in Table A show, the smaller the estimate the higher the relative standard error. Very small estimates are thus subject to such high standard errors (relative to the size of the estimate) as to detract seriously from their value for most reasonable uses. In the tables in this publication estimates less than the lowest levels shown in the table below have not been included. Although figures for these small components can in some cases be derived by subtraction, they should not be regarded as reliable.

5. The standard errors on estimates for areas within a State (i.e. metropolitan/non-metropolitan) are the same as the standard errors on the estimates for the State to which the sub-areas pertain.

6. The reliability of an estimated percentage, computed by using sample data for both numerator and denominator, depends upon both the size of the numerator and the size of the denominator. However, the relative standard error of the estimated percentage will generally be lower than the relative standard error of the estimate of the numerator. The relative standard errors of the numerators can be obtained from Table A.

7. The procedure for obtaining approximate standard errors of percentages is shown by the following example: from Table 1 it can be calculated that the



percentage of households with central heating is approximately 5.3 and the numerator is 249,600. By interpolation from Table A the standard error of the numerator is approximately 5,600. The relative standard error is therefore approximately 2.2 per cent (since 5,600 is approximately 2.2 per cent of 249,600). The standard error of the percentage of households with

central heating is therefore approximately 2.2 per cent of 5.3, i.e. 0.4. Thus there are about two chances in three that the percentage that would have been obtained if all dwellings had been included in the survey is in the range 4.9 to 5.7 per cent and about nineteen chances in twenty that it is in the range 4.5 to 6.1 per cent.

TABLE A. STANDARD ERRORS OF ESTIMATES

| Size of<br>Estimate | N.S.W. | Vic.  | Qld   | S.A.  | W.A.<br>- number - | Tas.  | NT.   | A.C.T. | Australia               |      |
|---------------------|--------|-------|-------|-------|--------------------|-------|-------|--------|-------------------------|------|
|                     |        |       |       |       |                    |       |       |        | per cent<br>of estimate |      |
| 1,500               |        |       |       |       |                    | 300   |       |        |                         |      |
| 2,000               |        |       |       | 460   | 460                | 340   | 470   | 440    |                         |      |
| 2,500               |        |       | 630   | 510   | 510                | 380   | 510   | 480    |                         |      |
| 3,000               |        |       | 690   | 550   | 560                | 410   | 550   | 510    |                         |      |
| 3,500               |        |       | 740   | 590   | 590                | 430   | 590   | 540    | 860                     | 24.6 |
| 4,000               | 980    | 960   | 780   | 620   | 630                | 460   | 620   | 560    | 920                     | 23.0 |
| 4,500               | 1,000  | 1,000 | 820   | 650   | 660                | 480   | 650   | 590    | 970                     | 21.6 |
| 5,000               | 1,100  | 1,100 | 860   | 680   | 690                | 500   | 680   | 610    | 1,000                   | 20.0 |
| 6,000               | 1,200  | 1,200 | 930   | 730   | 750                | 530   | 740   | 650    | 1,100                   | 18.0 |
| 10,000              | 1,500  | 1,400 | 1,200 | 900   | 920                | 640   | 910   | 750    | 1,400                   | 14.0 |
| 20,000              | 2,000  | 1,900 | 1,500 | 1,200 | 1,200              | 810   | 1,200 | 910    | 2,000                   | 10.0 |
| 50,000              | 3,000  | 2,700 | 2,200 | 1,600 | 1,700              | 1,100 | 1,700 | 1,100  | 2,900                   | 5.8  |
| 100,000             | 3,900  | 3,500 | 2,800 | 2,100 | 2,100              | 1,300 |       | 1,300  | 3,900                   | 3.9  |
| 200,000             | 5,000  | 4,400 | 3,600 | 2,600 | 2,600              | 1,500 |       |        | 5,100                   | 2.6  |
| 300,000             | 5,800  | 5,000 | 4,100 | 2,900 | 2,900              |       |       |        | 6,000                   | 2.0  |
| 500,000             | 6,900  | 5,800 | 4,800 | 3,300 | 3,300              |       |       |        | 7,200                   | 1.4  |
| 1,000,000           | 8,500  | 7,000 | 5,900 |       |                    |       |       |        | 9,100                   | 0.9  |
| 2,000,000           | 10,000 | 8,400 |       |       |                    |       |       |        | 11,000                  | 0.6  |
| 5,000,000           |        |       |       |       |                    |       |       |        | 15,000                  | 0.3  |



